

# Intelligent Control System User Manual



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## I. Remote Controller



## II. Functional Keys



On/Off

-10

+10

Brightness Increase /  
Decrease by 10%  
(All LED)

Mode

Mode Selection



Brightness Increase /  
Decrease by 1%  
(All LED)

TIME  
TEMP

Time/TEMP



LED Channel Selection

ID

Multiple Lights  
Linking

A+

A-

Channel A Brightness  
Adjustment



Reset

B+

B-

Channel B Brightness  
Adjustment

TIMER

Timer

C+

C-

Channel C Brightness  
Adjustment



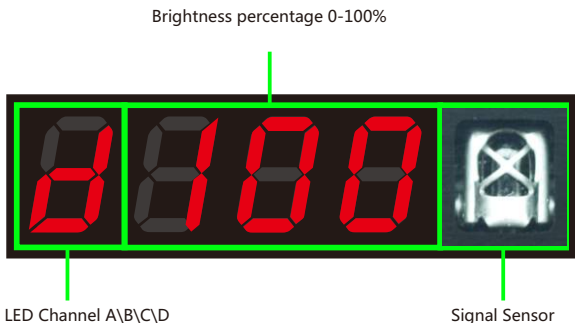
Ok

D+

D-

Channel D Brightness  
Adjustment

### III. Display Screen




### IV. System Time Setting


① When under the default state (brightness display), press **TIME TEMP** to enter system time setting, for hour set up, press **▲ ▼**, for minute set up, press **◀ ▶**.







② Press **TIME TEMP** again to save system time setting and enter the LED working temperature checking interface. The third press of **TIME TEMP** exits the setting and return to the default state.



## V. Standby Mode

①When press  , all LEDs will stop working but the power still maintained within the system, the whole fixture is then under standby mode . If you intend to stop the light for a long time, pls turn off the switch so as to save energy.



②The light will be awaked when  was pressed again and all the previous settings will be recovered. The system automatically saves the current settings every 45s.



## VI. Brightness Intensity Adjustment

①Press   , the brightness of all LEDs will be changed gradually by 1%, press   the brightness of all LEDs will be changed by 10% .

②Press   to adjust the brightness of LED channel A.

③Press   to adjust the brightness of LED channel B.

④Press   to adjust the brightness of LED channel C.

⑤Press   to adjust the brightness of LED channel D.

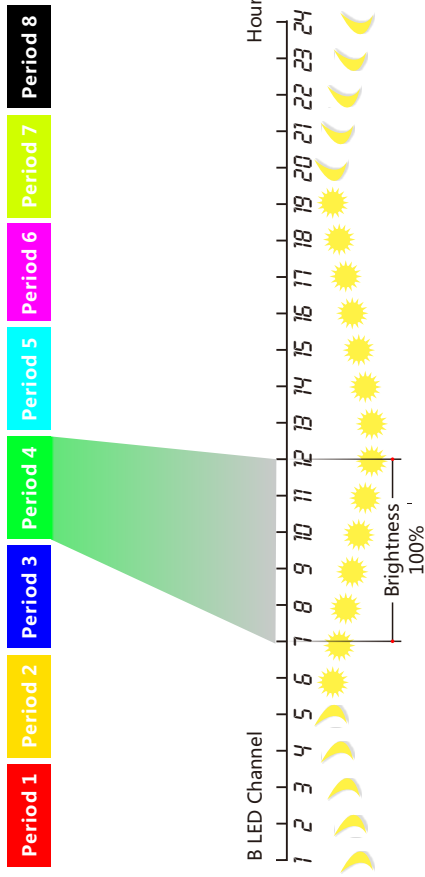
## VII. Timer

There are 8 varying brightness periods available for each LED channel in a 24-hour circle , the brightness and duration of each period can be adjusted according to user's preference. (PS: The timer function is base on the system time, please ensure the accuracy of the system time before you go for the timer setting.)




















Notice: Timer function is valid only under the default state (brightness display).

## Timer Setting Demonstration

Target: As shown in the picture, to set B LED channel to be 100% brightness in 4th period which is from 7:00AM-12:00AM.



## Operations as below

Steps	Key used	Procedures	Display Screen
①		Enter timer setting	
②		Choose LED channel B	
③		Choose the period number 4	
④		Activate the timer function	
⑤		Confirm and move on	
⑥	   	To set the started time of period 4, that is 7:00	
(The started time of period 5 is the termination of period 4, so the started time of period 5 should be set 12:00, which makes the period 4 duration from 7:00 to 12:00. Left key/right key for minute setting, Up key/down key for hour setting)			
⑦		Confirm above settings and enter to brightness setting	
⑧	 	To set the LED brightness to be 100% UP (increase) /Down (decrease)	
⑨		Done all the settings	

## VIII. Auto Run Mode

### ① How to choose auto run mode?

When under the default state (brightness display), press **Mode** to activate auto run mode.



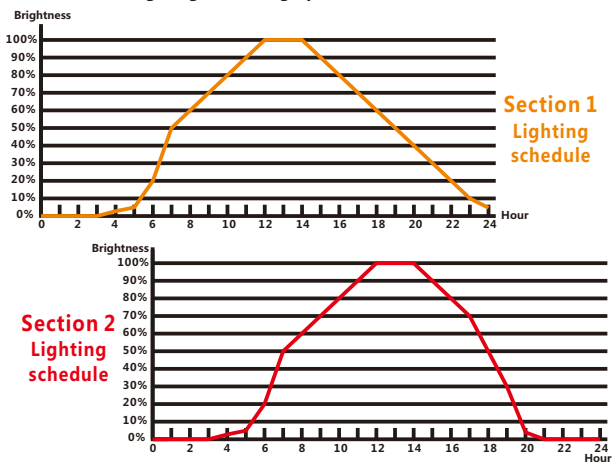
When dots are flashing, auto run mode is selected.

press **Mode** again to exit the auto run mode.

### ② How does auto run mode work ?

Auto run mode imitates the natural lighting effect, from sun rise to sun set, it offers an lively lighting environment for all aquarium creatures.

(Lighting schedule graph of auto run mode)



## Lighting schedule table of auto run mode

Section 1			Section 2		
Time		Brightness	Brightness		Time
am	00-01	0%		0%	00-01
	01-02	0%		0%	01-02
	02-03	0%		0%	02-03
	03-04	3%		3%	03-04
	04-05	5%		5%	04-05
	05-06	20%		20%	05-06
	06-07	50%		50%	06-07
	07-08	60%		60%	07-08
	08-09	70%		70%	08-09
	09-10	80%		80%	09-10
	10-11	90%		90%	10-11
pm	11-12	95%		95%	11-12
	12-14	100%		100%	12-14
	14-15	90%		90%	14-15
	15-16	80%		80%	15-16
	16-17	70%		70%	16-17
	17-18	60%		50%	17-18
	18-19	50%		30%	18-19
	19-20	40%		10%	19-20
	20-21	30%		3%	20-21
	21-22	20%		0%	21-22
	22-23	10%		0%	22-23
	23-24	5%		0%	23-24

If LED channels= A  
Left A

If LED channels= A&B  
Left A  
B Right

If LED channels= A&B&C  
Left AC  
B Right

If LED channels= A&B&C&D  
Left AC  
BD Right

## IX. Memory Function

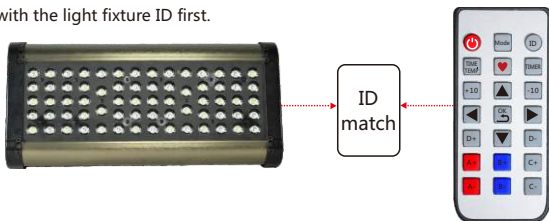
① The intelligent control system automatically saves the current settings every 120s. If there is a power interruption, the system will recover the latest settings in next start-up.

② The system memory can last for three months without power recharge.

There is no need to replace the built in battery, it is permanent.

## X. Multiple Lights Linking

① To activate the remote control function, you should match the controller ID with the light fixture ID first.



② How to assign the light fixture ID ?



## Operation

When under the default state ( brightness display)

a.press  twice.

b.press  once.

c. use   to choose ID number .

d.Press  to save ID.

---

### ③ How to assign the controller ID ?



## Operation

(when under the default state (brightness display)

a. press  twice .

b. use   to choose ID number.

c. press  to save ID.

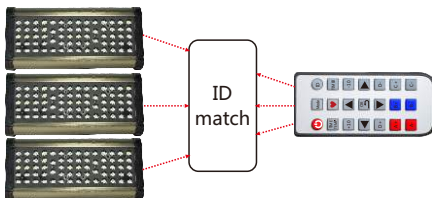
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### ④ How to match ?

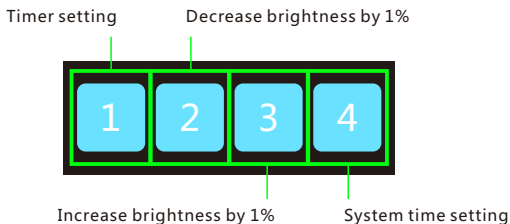
To match the controller with the light, you should make them the same ID.

### ⑤ How to attain multiple lights linking?

To set the controller and all the lights with the same ID number ,  
then you can control all the lights synchronously with one controller.



## XI. Manual Control



### (Control panel )

#### ① System time setting, LED working temp checking











when under the default state(brightness display):

Steps	Key used	Procedures	Display Screen
①	4 Long press	Enter to time setting interface	11.55
②	2 3	Adjust minute	11.55
③	1	Adjust hour	11.55
④	4 Long press	Enter to LED working temp checking	0000
⑤	4 Long press	Returns to interface to default state	8800

## ② Timer

when under the default state(brightness display):



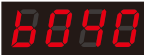
Operations as below

Steps	Key used	Procedures	Display Screen
①	 Long press	Enter to timer function	
②		Select the LED channels (A/B/C/D)	
③		Select the period order (1/2/3/4/5/6/7/8)	
④		Activate the timer function, the screen will display "ON"	
⑤		Confirm and enter to brightness setting	
⑥	  	To set the started time of the selected period "4"for hour, "2" & "3" for minute	
⑦		Confirm above settings and enter to brightness setting	
⑧	 	Define the brightness	
⑨		Finish all the settings and exit	

### ③LED brightness adjustment

Operations as below

When under the default state (brightness display):

Steps	Key used	Procedures	Display Screen
①	4	select LED channels (A/B/C/D)	
②	3	Increase the brightness intensity	
③	2	Decrease the brightness intensity	

## XII. Working Temperature Monitoring

Overheat Proofing: The system automatically monitors the LED working temperature, ensuring it is lower than 70°C.










## XIII. Smart Fans

When the LED working temperature is lower than 35°C, smart fans will stop running so as to save energy.

## XIV. Restore to Factory Settings

Operation:

when under the default state(brightness display):

Key used		Step
Procedures	Start procedure	
Display Screen		
Step		Key used
	Turn on the timer	Procedures
		Display Screen
Key used		Step
Procedures	Recover the factory settings	
Display Screen		

## XV. Intelligent Control System Related Product Lookup Table



Model	50W	100W	150W	200W	250W	300W
LED Channel Qty	1 A	2 A&B	3 or 4 A&B&C or A&B&C&D	2 A&B	2 A&B	2 A&B
Working Temperature Monitoring	Yes	Yes	Yes	Yes	Yes	Yes
Manual Control	No	No	No	No	No	No
Smart Fans	Yes	Yes	Yes	Yes	Yes	Yes



LED Channel Qty	2 A&B
Working Temperature Monitoring	Yes
Manual Control	No
Smart Fans	Yes



Model	2	3	6
LED Channel Qty	2 A &B	2 A &B	2 A &B
Working Temperature Monitoring	Yes	Yes	Yes
Manual Control	Yes	Yes	Yes
Smart Fans	Yes	Yes	Yes



Model	2	4	6	8	10	12	16	18	20
LED Channel Qty	2 A &B	2 A &B	2 A &B	2 A &B	2 A &B	2 A &B	2 A &B	2 A &B	2 A &B
Working Temperature Monitoring	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Manual Control	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Smart Fans	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

## Intelligent Control System Related Product

